

PROJECT NO. SL 117 EBENSBURG DISTRICT OFFICE
LIBRARY

DER Bureau of Operations
122 SOUTH CENTER STREET
EBENSBURG, PA 15931

**ACID MINE DRAINAGE
DEMONSTRATION PROJECT
PHILIPSBURG, PENNSYLVANIA**

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MINES AND MINERAL INDUSTRIES
Harrisburg, Pennsylvania

May, 1970



BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
ORADELL, N.J.

ACID MINE DRAINAGE
DEMONSTRATION PROJECT
PHILIPSBURG, PENNSYLVANIA

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MINES AND MINERAL INDUSTRIES
HARRISBURG, PENNSYLVANIA

CONTRACT NO. SL 117-1
GENERAL CONSTRUCTION

CONTRACT NO. SL 117-2
ELECTRICAL WORK

May, 1970

TABLE OF CONTENTS

Page Nos.

<u>DIVISION 1</u>	-	<u>GENERAL REQUIREMENTS AND BIDDING DOCUMENTS</u>	
Section 1A	-	Contract Proposal	1A-1 to 6
Section 1B	-	Instructions to Bidders	1B-7 to 13
Section 1C	-	General Conditions	1C-GC-1 to 23
Section 1D	-	Pennsylvania Prevailing Wage Act	1D-GC-24 to 37
Section 1E	-	Special Conditions	SC-1 to 7
Section 1F	-	- Scope of Work and Contract Drawings	1F-1 to 3
<u>DIVISION 2</u>	-	<u>SITE WORK</u>	
Section 2A	-	Excavation, Filling and Backfilling	2A-1 to 6
Section 2A	-	Appendix 1	2A-7 to 36
Section 2B	-	Topsoil, Seeding and Shrubbery	2B-1 to 7
Section 2C	-	Pavements	2C-1 to 10
Section 2D	-	Fencing	2D-1 to 5
Section 2E	-	Yard Piping and Drainage Structures	2E-1 to 4
Section 2F	-	Sewage Disposal System	2F-1 to 3
Section 2G	-	Sandfill Underwater Tanks	2G-1 to 5
<u>DIVISION 3</u>	-	<u>CONCRETE</u>	
Section 3A	-	Concrete	3A-1 to 8
<u>DIVISION 4</u>	-	<u>MASONRY</u>	
Section 4A	-	Concrete Unit Masonry	4A-1 to 6
<u>DIVISION 5</u>	-	<u>METALS: STRUCTURAL & MISCELLANEOUS</u>	
Section 5A	-	Structural Steel and Miscellaneous Iron	5A-1 to 10
<u>DIVISION 6</u>	-	<u>CARPENTRY</u>	
Section 6A	-	Carpentry	6A-1 to 2
<u>DIVISION 7</u>	-	<u>MOISTURE PROTECTION</u>	

Included under Section 13A, Prefabricated Buildings.

Table of Contents continued:

Page Nos.

DIVISION 8 - DOORS, WINDOWS, AND GLASS

Section 8A	- Hollow Metalwork (Interior)	8A-1 to 6
Section 8B	- Builders' Hardware (Interior)	8B-1 to 6
Section 8C	- Glass and Glazing (Interior)	8C-1 to 3

DIVISION 9 - FINISHES

Section 9A	- Gypsum Board Ceilings	9A-1 to 6
Section 9B	- Acoustical Ceiling Units	9B-1 to 4
Section 9C	- Ceramic Tile	9C-1 to 8
Section 9D	- Flooring; Resilient Tile	9D-1 to 4
Section 9E	- Lathing and Plastering	9E-1 to 6
Section 9F	- Finish Painting and Coatings	9F-1 to 12

DIVISION 10 - SPECIALTIES

Section 10A	- Movable Metal Partition	10A-1 to 4
Section 10B	- Metal Toilet Enclosures and Partitions	10B-1 to 8
Section 10C	- Toilet Room Accessories	10C-1 to 4
Section 10D	- Metal Lockers	10D-1 to 6

DIVISION 11 - EQUIPMENT

Section 11A	- Kitchenette Unit	11A-1 to 2
Section 11B	- Laboratory Furniture	11B-1 to 5

DIVISION 12 - FURNISHINGS

Section 12A	- Venetian Blinds	12A-1 to 4
-------------	-------------------	------------

DIVISION 13 - SPECIAL CONSTRUCTION

Section 13A	- Prefabricated Buildings	13A-1 to 21
Section 13B	- Welding and Nondestructive Testing	13B-1 to 9

DIVISION 14 - CONVEYING SYSTEMS

None required under this contract.

DIVISION 15 - MECHANICAL

Section 15A	- Mechanical Equipment	15A-1 to 32
-------------	------------------------	-------------

Table of Contents continued:

Page Nos.

Section 15B	- Process Pumps	15B-1 to 16
Section 15C	- Piping Systems	15C-1 to 20
Section 15D	- Plumbing	15D-1 to 16
Section 15E	- Heating	15E-1 to 15
Section 15F	- Air Conditioning and Ventilating	15F-1 to 15

DIVISION 16 - ELECTRICAL

Section 16A	- General Technical Requirements for the Electrical Work	16A-1 to 3
Section 16A	- Appendix 2	16A-4
Section 16B	- Electrical Service	16B-1 to 2
Section 16C	- Conduit	16C-1 to 7
Section 16D	- Insulated Wire and Cable	16D-1 to 7
Section 16E	- Grounding	16E-1 to 4
Section 16F	- Lighting & Heating Systems	16F-1 to 5
Section 16G	- Panelboards	16G-1 to 3
Section 16H	- Motors	16H-1 to 4
Section 16I	- Motor Control Centers, Motor Controls, Motor Starters and Motor Disconnect Switches	16I-1 to 4
Section 16J	- Temporary Power and Light	16J-1 to 3

DIVISION 17 - INSTRUMENTATION

Section 17A	- Instrumentation	17A-1 to 31
-------------	-------------------	-------------